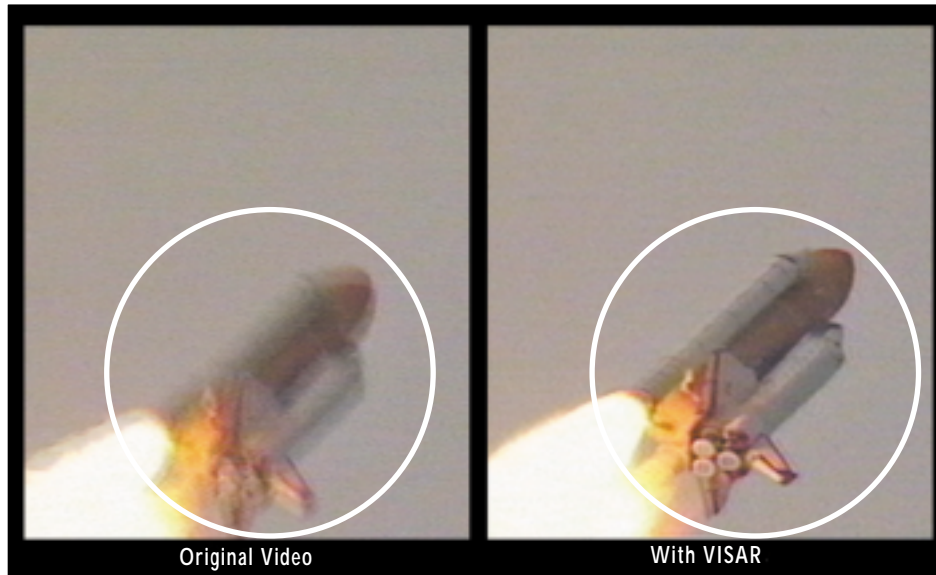


VISAR

— Video Image Stabilization and Registration
a new concept in clear video imagery



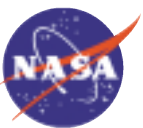
NASA is offering companies the opportunity to license its much sought after video image stabilization and registration (VISAR) technology. Originally developed for the FBI during the 1996 Atlanta Olympics bombing investigation, VISAR will enable homeowners, law enforcement, and others to dramatically enhance videotape sequences on desktop computers.

Benefits

- ▶ Stabilizes camera rotation and zoom effects
- ▶ Produces clearer moving images
- ▶ Smoothes jagged edges of images
- ▶ Enhances still images from video
- ▶ Reduces video noise, or “snow”
- ▶ Easy-to-use Windows-based user interface
- ▶ Less than 300 kilobytes of hard storage needed

Applications

- ▶ Law enforcement and security videos
- ▶ Moving automobile cameras (race cars, police cars)
- ▶ Medical and scientific imaging
- ▶ Aircraft cameras (warplanes, mapping, surveillance)
- ▶ Microscopic tracking of cell or crystal activity
- ▶ Home video tapes
- ▶ Instant replays of sporting events





A Novel Technology

NASA's VISAR technology allows users to dramatically improve videotape sequences and still images extracted from moving video. Developed at NASA Marshall Space Flight Center (MSFC), VISAR successfully registers and enhances video images using a unique, patent-pending process. After registration, frames may be co-added to enhance clarity. Images marred by camera zoom and rotation effects—even when the background and foreground move at different rates—can be dramatically improved.

VISAR received extensive praise for its unparalleled performance during the FBI investigation of the 1996 Olympics bombing in Atlanta. Since then, the law enforcement, military, surveillance, and medical industries have been avid supporters of the technology. The NASA inventors have used VISAR to process numerous critical police camera and surveillance tapes.

The technology prototype is an easy-to-use, low-cost Windows-based program that uses less than 300 kilobytes storage space.

Team with NASA

This technology is part of NASA's technology commercialization program, which seeks to stimulate commercial use of NASA-developed technologies. NASA encourages consumer software companies and other companies to consider establishing a working partnership with MSFC to develop VISAR for their product line.

Contact

If your company is interested in the VISAR technology, or if you desire additional information, please reference Case Number MFS-31243 and contact:

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VISAR demo video available



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